

ORIFICE & MOUTHPIECE SET-UP (EE-1522)

This Equipment consists of a tank provided with inlet supply diffuser, overflow. Provision for fitting Mouthpiece of different L/D ratio at the outlet of tank. An arrangement is done to vary head and keep it constant at desired level. A pointer gauge arrangement for measuring X-Y co-ordinates of Jet is also fitted.

Present set-up is self-contained water re-circulating unit, provided with a sump tank and a centrifugal pump etc. Flow rate of water is measured with the help of measuring tank and stop watch.

SCOPE OF EXPERIMENTATION:

- To determine the co-efficient of discharge of different Mouthpieces.
- To determine the co-efficient of velocity.

UTILITIES REQUIRED:

- Water Supply. Drain
- Electricity 0.5Kw, 220VAC, Single Phase.
- Floor Area 1.5x0.75m.

TECHNICAL DETAILS

- Set of Orifices : Material Acrylic (2 Nos.)
Dia. 10mm & 15mm
- Set of Mouthpieces : Material Acrylic (3 Nos.)
Dia 10 mm (L/D = 1)
Dia 10 mm (L/D = 2.5)
Dia 10 mm (L/D = 4)
- Water Circulation : FHP Pump(0.5 HP), Crompton standard make.
- Pointer Gauge : To measure X-Y co-ordinates of Jet.
- Sump Tank : Capacity 70 Ltrs
- Constant Head Tank : capacity 35 Ltrs
- Flow Measurement : Using Measuring Tank with Piezometer,
Capacity 25Ltrs. **(MOC SS)**
- Stop Watch : Electronic.
- Control Panel Comprises of :
- Standard make On/Off Switch, Mains Indicator, Etc.
- **Tanks will be made of Stainless Steel.**
- The Whole set-up is well designed and arrangement in good quality painted structure.

